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L1 ANSWER 1 OF 1 CA COPYRIGHT 2002 ACS
AN ***130:96383*** CA
TI Polymer compositions with good water resistance, high thermal
conductivity, and less ionic component elution
IN Shimoda, Manabu; Yasutake, Takeshi; Harada, Isao
PA Mitsui Chemicals Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
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LA Japanese
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Section cross-reference(s): 39
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11005907 /	A2	19990112	JP 1997-159842	19970617

AB Title compns., useful as sealants or adhesives for electronic parts,
comprise (A) 100 parts polymers, (B) 50-600 parts water-resistant AlN
powders contg. phosphoric acid compds., and (C) fluidity improvers. Thus,
a compn. contg. 100 parts silicone rubber and 80 parts water-resistant Al
nitride powders (contg. 2.0% water-repellent silica and 1.0%
orthophosphoric acid) was kneaded and extrusion-molded to give a molding
with good water resistance, high thermal cond., and less ionic component
elution.

ST water resistance thermal conductor polymer blend; aluminum nitride
phosphoric acid polymer blend; silicone rubber aluminum nitride blend
waterproof; epoxy resin aluminum nitride blend waterproof; polyamide
aluminum nitride blend waterproof

IT Thermal conductors
Water-resistant materials
(polymer compns. contg. aluminum nitride with good water resistance,
high thermal cond., and less ionic component elution)

IT Epoxy resins, properties
Fluoropolymers, properties
Phenolic resins, properties
Polyamides, properties
Polycarbonates, properties
Polyesters, properties
Polyimides, properties
Polyoxyphenylenes
Polysiloxanes, properties
Polyurethanes, properties
Silicone rubber, properties
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or
engineered material use); USES (Uses)
(polymer compns. contg. aluminum nitride with good water resistance,
high thermal cond., and less ionic component elution)

IT 1344-28-1, Alumina, properties 10043-11-5, Boron nitride, properties
13463-67-7, Titania, properties
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
process); PRP (Properties); TEM (Technical or engineered material use);
PROC (Process); USES (Uses)
(fluidity improver; polymer compns. contg. aluminum nitride with good
water resistance, high thermal cond., and less ionic component elution)

IT 7429-90-5D, Aluminum, org. compds., reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with ammonia; polymer compns. contg. aluminum nitride with
good water resistance, high thermal cond., and less ionic component
elution)

IT 7664-41-7, Ammonia, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with org. Al compds.; polymer compns. contg. aluminum nitride
with good water resistance, high thermal cond., and less ionic
component elution)

IT 7631-86-9, Silica, properties

RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(water-repellent, fluidity improver; polymer compns. contg. aluminum nitride with good water resistance, high thermal cond., and less ionic component elution)

IT 7664-38-2, Phosphoric acid, properties

RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(water-resistant Al nitride contg.; polymer compns. contg. aluminum nitride with good water resistance, high thermal cond., and less ionic component elution)

IT 24304-00-5, Aluminum nitride

RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(water-resistant; polymer compns. contg. aluminum nitride with good water resistance, high thermal cond., and less ionic component elution)